

| POSITION DESCRIPTION <i>(Please Read Instructions on the Back)</i> | | | | | | 1. Agency Position No. NL10907 | |
|--|--|---|--|--|------------------------------|---|----------------|
| 2. Reason for Submission <input type="checkbox"/> Redescription <input type="checkbox"/> Reestablishment <input checked="" type="checkbox"/> New <input type="checkbox"/> Other <i>(Show any positions replaced)</i> | | 3. Service <input type="checkbox"/> Hdqtrs. <input checked="" type="checkbox"/> Field | | 4. Employing Office Location ORLANDO, FL | | 5. Duty Station FT. HOOD, TX | |
| 7. Fair Labor Standards Act <input checked="" type="checkbox"/> Exempt <input type="checkbox"/> Nonexempt | | 8. Financial Statements Required <input type="checkbox"/> Executive Personnel Financial Disclosure <input checked="" type="checkbox"/> Employment and Financial Interests | | 9. Subject to IA Action <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | 10. Position Status <input checked="" type="checkbox"/> Competitive <input type="checkbox"/> Excepted (Specify in Remarks) <input type="checkbox"/> SES (Gen.) <input type="checkbox"/> SES (CR) | |
| 11. Position Is: <input type="checkbox"/> Supervisory <input type="checkbox"/> Managerial <input checked="" type="checkbox"/> Neither | | 12. Sensitivity <input type="checkbox"/> 1- Non-Sensitive <input type="checkbox"/> 3- Critical Sensitive <input checked="" type="checkbox"/> 2- Noncritical Sensitive <input type="checkbox"/> 4- Special Sensitive | | 13. Competitive Level Code 1434 | | 14. Agency Use | |
| 15. Classified/Graded by a. U.S. Office of Personnel Management b. Department, Agency or Establishment c. Second Level Review d. First Level Review e. Recommended by Supervisor or Initiating Office | | Official Title of Position (INTERDISCIPLINARY) COMPUTER/ELECTRONICS ENGINEER | | Pay Plan GS | Occupational Code 854/855 | Grade 14 | Initials BP |
| 16. Organizational Title of Position (if different from official title) CHIEF ENGINEER | | 17. Name of Employee (if vacant, specify) PM FOR COMBINED ARMS TAC TRAINER | | 18. Department, Agency, or Establishment DEPARTMENT OF THE ARMY (DA) | | c. Third Subdivision PM FOR COMBINED ARMS TAC TRAINER | |
| a. First Subdivision U.S. ARMY MATERIEL COMMAND (AMC) | | d. Fourth Subdivision | | e. Fifth Subdivision | | Signature of Employee (optional) | |
| b. Second Subdivision SIMULATION, TRAINING AND INSTRUMENTATION CMD | | Employee Review—This is an accurate statement of the major duties and responsibilities of my position. | | 20. Supervisory Certification. <i>I certify that this is an accurate statement of the major duties and responsibilities of this position and its organizational relationships, and that the position is necessary to carry out Government functions for which I am responsible. This certification is made with the</i> | | <i>knowledge that this information is to be used for statutory purposes relating to appointment and payment of public funds, and that false or misleading statements may constitute violation of such statutes or their implementing regulations.</i> | |
| a. Typed Name and Title of Immediate Supervisor PAT SPANGLER, DPM FOR PM CATT | | b. Typed Name and Title of Higher-Level Supervisor or Manager (optional) | | Signature | | Date 4/2/98 | |
| 21. Classification/Job Grading Certification. <i>I certify that this position has been classified/graded as required by Title 5, U.S. Code, in conformance with standards published by the U.S. Office of Personnel Management or, if no published standards apply directly, consistently with the most applicable published standards.</i> | | 22. Position Classification Standards Used in Classifying/Grading Position US PCS FOR COMPUTER ENGINEERING, GS-854; US PCS FOR ELECTRONIC ENGINEERING, GS-855; EQUIPMENT DEVELOPMENT GEG, PART II. | | Information for Employees. The standards, and information on their application, are available in the personnel office. The classification of the position may be reviewed and corrected by the agency or the U.S. Office of Personnel Management. Information on classification/job grading appeals, and complaints on exemption from FLSA, is available from the personnel office or the U.S. Office of Personnel Management. | | Signature | |
| Typed Name and Title of Official Taking Action JAMES B. GODWIN, COL, CHIEF OF STAFF | | Date 4/2/98 | | 23. Position Review | | INITIALS DATE INITIALS DATE INITIALS DATE INITIALS DATE INITIALS DATE | |
| a. Employee (optional) | | b. Supervisor | | c. Classifier | | 24. Remarks POSITION IS AT THE FULL PERFORMANCE LEVEL BUS: 7777 | |
| 25. Description of Major Duties and Responsibilities (See Attached) | | | | | | | |

INTRODUCTION

Position is located in the Project Manager for Combined Arms Tactical Trainer, U.S. Army Simulation, Training and Instrumentation Command (STRICOM), a major subordinate command of the U.S. Army Materiel Command (AMC). The mission of STRICOM is to provide centralized management and direction for all research, development, acquisition and fielding of Army training devices, simulations, simulators, test and training instrumentation, targets threat simulators and Advanced Distributed Simulation (ADS). The mission includes cradle to grave life cycle acquisition beginning with tech base programs and following through with each phase of the acquisition process. The Commander centrally directs, coordinates and supports the materiel development, acquisitions and sustainment activities through the functional matrix organization and four project managers. The position serves as a senior system engineer and technical leader in the organizational unit, concerned with technical issues such as a common training systems architecture, as well as in defining the future of the organization's programs. The incumbent will work with the STRICOM Technical Director and the other chief engineers in creating and sustaining a culture of horizontal integration and technology sharing within the command.

MAJOR DUTIES

The position serves as a technical lead concerned with assessing the development of new capabilities and engineering practices which incorporate leading edge state-of-the-art technologies and in providing systems engineering solutions to the STRICOM program requirements. Serves as lead over various acquisition phases, i.e., requirements definition, development, procurement, testing and support. Resolves engineering problems and makes final recommendation to the Project Manager on controversial technical issues and problems cutting across organizational lines. Evaluates the technical quality of accomplishments, applying scientific and/or engineering knowledge to analyze technical reports, test results and operational reports, and when necessary directs corrective actions.

1. TECHNICAL PROGRAM MANAGEMENT AND DIRECTION:

Formulates and manages a technical program which integrates all related activities within the technical area. Assesses near and long term requirements and technology advances in

relation to stated goals and objectives. Develops budget and resource estimates, establishes schedules and management controls necessary to achieve integration of activities within and outside the technical program area.

- Maintains cognizance of program status, identifies problem areas and needed changes to program plans and initiates corrective action either directly or through reporting to upper management. Ensures that adequate control systems are developed to operate so that government resources are efficiently and effectively managed. Oversees the preparation of management reports and attends management reviews.

- Coordinates with the technology base program. Identifies and maintains extended term technology base requirements to overcome technical barriers. Maintains awareness of technology efforts being conducted by other services, i.e., DARPA and DMSO. Identifies opportunities and plans for technology transfer. Integrates activities related to the technical area occurring within the Army, in other services, OSD, other government laboratories, universities and industry. Prepares written and oral presentations to high-level management officials in the government and industry.

- Exchanges information related to technical program areas of distributed network simulation, telecommunications, software system engineering and simulation modeling with contractors, scientists, engineering and military personnel engaged in related research or development activities.

- Acts as a lead systems engineer for broad acquisition areas. Formulates overall design concept and criteria for each program. Reviews, assesses and coordinates the efforts of engineers and contractors responsible for development of standards relating to the technical areas.

- Synchronize technical efforts with other PM's/Chief Engineers responsible for technical integration of assigned products access on PM's and STRICOM systems.

40 %

2. SYSTEMS ENGINEERING MANAGEMENT:

Serves as the principal software engineering expert and consultant to the Project Manager. Provides technical advisory services to the Product Managers within the

office. Serves as a subject matter expert in a variety of areas including metrics, reuse, software architecture and networks.

- Develops, maintains and approves standards, interface design specifications and other technical documentation required to implement policy, achieve technical objectives and establish an integrated system architecture within the technical area.

- Within stated guidelines, directs and approves the preparation of documentation for procurement packages, acquisition strategies and program management plans required to address matters related to the assigned technical area.

- Serves on source selection boards, configuration control boards and material acquisition review boards when required to address matters related to the assigned technical area.

- Develops and maintains an extended term investment strategy for technology base initiatives to overcome technical barriers, fill voids or leverage work done by other organizations to meet Army needs. Identifies opportunities for entering into cooperative agreements and reliance on work done by other organizations as well as the presence of overlapping and nonessential activities for elimination.

25%

3. STAFF SPECIALIST:

Serves as the staff specialist in the area of communication/computer technologies related to the distributed networking of simulators/software development and modeling technologies related to real time, man-in-the-loop simulators and simulations.

- Provides technical leadership and subject matter expertise to government and industry working groups developing communications architectures/software design and techniques applicable to simulations.

- Maintains an up-to-date awareness of emerging DoD policies and industry trends and practices in the advanced distributed simulation. Maintains a continuing surveillance of trends in advanced distributed simulation

technology, in both domestic and foreign, for application to specific simulation problems. 35%

Performs other duties as assigned.

FACTOR 1. KNOWLEDGE REQUIRED BY THE POSITION

This position requires extensive knowledge of engineering principles and theory of the type, scope and thoroughness typically acquired through completion of a four year course of engineering study at the college or university level leading to a Bachelor of Science degree in Electronics/Computer Science/Computer Engineering augmented by advanced degrees and/or extensive experience in the technical specialty field. Essential to the performance of the duties of this position are proven capability in and knowledge of telecommunications and networking standards, architecture protocols and systems; computer image generation systems and architecture; and war gaming simulations. A general knowledge of procurements, program management and financial management is required.

Maintains and applies an accurate and inclusive up-to-date knowledge of local and wide area and satellite communications and networks, and intelligent gateways, requiring continuous liaison with government agencies, telecommunications systems manufacturers, users, other engineering and scientific personnel.

Maintains a continuing awareness of current surface, land and air combat systems, operations and related training requirements to ensure comprehensive treatment of requirements in combined arms training systems.

FACTOR 2. SUPERVISORY CONTROLS.

The position is under the general supervision of the Deputy Project Manager, who oversees the integration of tasking assignments. Task assignments are made in terms of program objectives and broad policy guidance. The incumbent exercises broad authority for technical and program decisions that are not reviewed and of administering assigned responsibilities. Guidance on program features such as funds, schedules, priorities and overall program direction are received through tasking assignments requiring the incumbent to maintain general direction and

control over assigned activities to assure coordination with related programs. Work is reviewed in terms of overall adherence to policy, achievement of objectives and management effectiveness.

FACTOR 3. GUIDELINES

Guidelines include Army policies and regulations, Army specifications, technical manual's and bulletins, manufacturers catalogs, industry standards and textbooks. As a researcher, the employee is presented situations for which these guidelines are usually inadequate, requiring the employee to use judgement and ingenuity in changing or expanding usual methods when precedents are not applicable.

FACTOR 4. COMPLEXITY

Real-time interactive simulation systems research conducted by the incumbent is very complex. The effort must bring together the number of unrelated high priced technologies and systems into a cohesive, affordable practical solution. The incumbent review work containing a variety of complex features being performed by engineering specialists, computer scientists, and programmer/analysts. The employee must be very versatile and innovative in extending methods or developing new approaches to solve a variety of novel and complex engineering problems.

FACTOR 5. SCOPE AND EFFECT.

The purpose of the work is to develop affordable simulation environments for training, analysis of combat readiness of forces, and analysis of effectiveness of new combat weapon systems. The complex nature of the work requires sound judgement, as well as innovation in resolving critical problems, extending techniques or developing new approaches. The employee's work efforts have a significant impact on the organization and the entire Army mission.

FACTOR 6. PERSONAL CONTACTS

Personal contacts are with other engineers, scientist, programmer/analysts, officials and managers at STRICOM, LABCOM, NAVTRASYSSEN, DARPA, IDS, NASA, OSD, the USAF Human Resources Lab, and other Army, Air Force, and Navy commands, contractors, manufacturers, and government representatives from both US and foreign entities.

FACTOR 7. PURPOSE OF CONTACTS

Contacts are to exchange information, coordinate work efforts, review other research efforts, discuss equipment and software requirements, resolve questions or problems and render consultative services. Some contacts require the employee to present technical information to convince other engineers and managers to adopt technical approaches about which they may be skeptical.

FACTOR 8. PHYSICAL DEMANDS

The work is sedentary.

FACTOR 9. WORK ENVIRONMENT

The work is performed in a typical government office setting. Air travel may be necessary in order to accomplish some assigned tasks.

CRITICAL ACQUISITION POSITION AMENDMENT TO PD# NL 10907

"This is a Critical Acquisition Position. Unless specifically waived by the appropriate Army official, the following are statutory requirements (Reference: 10 U.S.C. 1733 - 1737):

- Selectee must be qualified for Acquisition Corps membership at the time of selection or possess a waiver.

- Selectee must execute, as a condition of appointment, a written agreement to remain in federal service in this position for at least 3 years. In signing such an agreement, the employee does not forfeit any employment rights, nor does such an agreement alter any other terms or conditions of employment."